

553,857

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/090136 A1

(51) International Patent Classification⁷: C12N 15/29

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(21) International Application Number:

PCT/AU2004/000494

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(22) International Filing Date: 14 April 2004 (14.04.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

Published:

— with international search report

(30) Priority Data:
2003901797 14 April 2003 (14.04.2003) AU
2003904369 14 August 2003 (14.08.2003) AU

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WO 2004/090136 A1

(54) Title: CHALCONE SYNTHASE DIHYDROFLAVONOL 4-REDUCTASE AND LEUCOANTHOCYANIDINE REDUCTASE FROM CLOVER, MEDIC RYEGRASS OR FESCUE

(57) Abstract: The present invention relates to nucleic acid fragments encoding amino acid sequences for flavonoid biosynthetic enzymes in plants, and the use thereof for the modification of, for example, flavonoid biosynthesis in plants, and more specifically the modification of the content of condensed tannins. In particularly preferred embodiments, the invention relates to the combinatorial expression of chalcone synthase (CHS) and/or dihydroflavonol 4-reductase (BAN) and/or leucoanthocyanidine reductase (LAR) in plants to modify, for example, flavonoid biosynthesis or more specifically the content of condensed tannins.